

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2003-005392

(43)Date of publication of application : 08.01.2003

(51)Int.Cl.

G03G 5/047

G03G 5/147

G03G 15/02

(21)Application number : 2001-188620

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(22)Date of filing : 21.06.2001

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(54) ELECTROPHOTOGRAPHIC PHOTORECEPTOR, PROCESS CARTRIDGE AND ELECTROPHOTOGRAPHIC APPARATUS

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an electrophotographic photoreceptor capable of outputting a high-grade image attended with little positive ghost even in a new charging system and to provide a process cartridge and an electrophotographic apparatus.

SOLUTION: The electrophotographic photoreceptor is used in an electrophotographic apparatus having a charging means consisting of charged particles based on electrically conductive particles of 10 μm to 10 nm particle diameter and a charged particle carrier having an electrically conductive elastic surface and supporting the charged particles, wherein the charged particles come in contact with a body to be charged to charge the surface of the body to be charged. The resistance of the particles supported on the carrier is 10^{12} - 10^{-1} $\Omega\cdot\text{cm}$ and the amount of the particles supported is 0.1-50 mg/cm². The photoreceptor has at least a photosensitive layer and an electric charge injection layer on an electrically conductive support and hole mobility μt (cm²/V.sec) in an electric field of 3×10^5 V/cm satisfies the formula $\mu\text{t} > 1 \times 10^{-6}$ cm²/V.sec. The process cartridge has the photoreceptor.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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